

**National Aerial Photography Program (NAPP)
National Digital Orthophoto Program (NDOP)**

MAINTENANCE PLAN

November 18, 2002

Vision Statement:

The National Aerial Photography Program (NAPP) and the National Digital Orthophoto Program (NDOP) will strive to make aerial photography and digital orthoimagery available to meet national requirements. This will be accomplished by creating partnerships with Federal, State and local governments, tribal and private organizations.

NAPP/NDOP is the core imagery component for the National Map. The NAPP/NDOP will coordinate with other national programs having a need for aerial photography and digital orthoimagery. This includes programs such as the National Digital Elevation Program (NDEP), Homeland Security, the FSA National Agriculture Imagery Program (NAIP), the Federal Emergency Management Agency (FEMA) Flood Map Modernization Program, and the Census Bureau MAF/TIGER Modernization Program.

The NAPP/NDOP will investigate, evaluate, promote, and implement new technologies in support of improved imagery accuracy, data development and access, maintenance strategies, and derivative products.

The NAPP/NDOP supports the coordination and standards setting goals and objectives established by the Federal Geographic Data Committee (FGDC), the National Spatial Data Infrastructure (NSDI), and Geospatial One-Stop.

NAPP/NDOP Program Goals:

- Pursue coverage for all 50 states, Puerto Rico, the Virgin Islands, and other U.S. territories and possessions.
- Promote and participate in a national strategy that acquires or accesses the best value orthoimagery data for Federal agencies while flexible enough to create partnerships with State, local, tribal, and private organizations.
- Create and distribute an annual maintenance plan that graphically depicts on-going and planned activities.
- Implement variable-length maintenance cycles that support Federal requirements, and are coordinated with State orthoimagery maintenance programs.
- Support a variety of imagery formats such as quarter-quad tiles and county mosaics.

- Support the maintenance and archive of imagery and digital orthoimagery and associated metadata as part of the national database. Maintain all imagery in the public domain.
- Support the integration of orthoimagery data into seamless orthoimagery databases of variable resolution.
- Investigate the accessibility, accuracy, integration, and application of data collection from emerging technologies, including: digital camera imagery, satellite imagery from both commercial and national sources, and elevation collection technologies such as LIDAR, IFSAR and SRTM.
- Imagery requirements and agreements will be coordinated through the NDOP Project Coordination Subcommittee, USGS State liaison staff, and State GIS councils/committees or the equivalent. State GIS councils will be, where appropriate, the coordinating body for state and local requirements. The NDOP Project Coordination Subcommittee will coordinate, to the extent possible, Federal and State agency program requirements.

Standard DOQs from NAPP - Maintenance Goals:

- NAPP/NDOP will continue to seek partnerships with Federal agencies and States to acquire imagery at NAPP specifications, and generate Federal profile DOQs made from NAPP imagery.
- NAPP/NDOP will give priority to NAPP acquisition when there is a requirement for a DOQ product.
- NAPP/NDOP will attempt to shorten the cycle time from photograph to orthophoto by evaluating and utilizing new technologies.
- States cost sharing with the NAPP/NDOP will pay a percentage of the government cost estimate determined by the number of participating cooperators, or will pay a mutually agreed-upon amount.
- NAPP/NDOP will consider imagery from other sources in lieu of new NAPP acquisitions such as USFS and BLM resource photography and FSA NAIP leaf-on imagery.

State High-Resolution Imagery - Maintenance Goals:

- NAPP/NDOP will participate in high-resolution orthoimagery programs through partnerships with Federal, State, local, tribal, and private organizations.
- NAPP/NDOP will encourage State high-resolution programs to coordinate county and other local requirements into their respective programs. Likewise, NAPP/NDOP will encourage local governments to coordinate their imagery plans with their State program.

- NAPP/NDOP encourages State partners to archive and maintain their respective high-resolution orthoimagery data and metadata, and to provide access and distribution of unrestricted public domain data on NSDI Clearinghouse nodes via the Geospatial One-Stop portal in coordination with The National Map.
- NAPP/NDOP contributions to State high-resolution orthoimagery programs will not exceed one-half the government cost estimate for NAPP photography collection and 1:12,000-scale, 1-meter resolution DOQ production over the State.

Partnership Considerations:

- Vintage of existing imagery will be evaluated.
- Government purchased products must be archived in the public domain. USGS (EROS Data Center) and USDA (APFO and NRCS) will offer archive and distribution services for states and Federal agencies. No restrictions, licensing, or copyright use infringements are acceptable.
- Minimum size area to be contracted must be cost effective; i.e., contiguous, or include the entire area of interest (e.g. county, state, national forest, wildlife management area, etc.).
- Metadata must meet the FGDC metadata content standard.
- Analyze the quality of high-resolution imagery samples before agreeing to cooperatively fund projects.